| Inde | x of | Clair | ns |
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09/847,642

Examiner

LAVAGNO ET AL. Art Unit

Reexamination

Applicant(s)/Patent under

Russell L. Guill

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Rejected Allowed

(Through numeral)
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Interference

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| The color of the   |       | aim      | Date   |   |        |       | ) [      | Claim Date |         |          |   |     |       |          |          | $\neg$ |   |   |     |   |         |         |          |
|--|-------|----------|--------|---|--------|-------|----------|------------|---------|----------|---|-----|-------|----------|----------|--------|---|---|-----|---|---------|---------|----------|
| 1  | Cie   |          |        |   |        |       | Jac      | ř–         | Г       | <u> </u> |   |     | Jie   |          | $\vdash$ |        |   |   | 701 | Ť |         |         | $\dashv$ |
| S  | Final | Original | 4/1/06 |   |        |       |          |            |         |          |   |     | Finat | Original |          |        |   |   |     |   |         |         |          |
| 3   V  |       | 1        | 1      |   |        |       |          | Г          | Г       |          |   |     |       | 51       |          |        |   |   |     |   |         |         |          |
| 3   V  |       | 2        | 7      |   |        |       |          |            |         |          |   |     |       | 52       | 1        |        |   |   |     | Г |         |         |          |
| A   V  |       | 3        | 1      |   |        |       |          |            |         |          |   |     |       | 53       | 1        |        |   |   |     | Γ | Г       | П       |          |
| 6       V       V       S6       V       S7       V       S8       V       S9       V       S8       V       S9       V       S8       V       S9       S9       V       S9       V       S9       S9       V       S9       S9       V       S9        S9   |       | 4        | 1      |   |        |       | Г        |            |         |          |   | 1 1 |       |          | 1        |        |   |   |     |   |         |         | $\neg$   |
| 6       V       V       S6       V         7       V       V       S5       V       S5 </td <td></td> <td></td> <td>1</td> <td></td> <td>55</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>   |       |          | 1      |   |        |       |          |            |         |          |   |     |       | 55       |          |        |   |   |     |   |         |         |          |
| T  |       |          | 1      |   |        |       |          |            |         |          |   |     |       |          | 1        |        |   |   |     |   |         |         |          |
| 9  |       |          | 4      |   |        |       |          |            |         |          |   | 1 1 |       | 57       | 1        |        |   |   |     |   |         |         |          |
| 10   |       | 8        |        |   |        |       |          |            |         |          |   |     |       | 58       |          |        |   |   |     |   |         |         |          |
| 11   |       | 9        | 1      |   | _      |       |          |            |         |          |   |     |       | 59       | 1        |        |   |   |     |   |         |         |          |
| 12   |       | 10       | V      |   |        |       |          |            |         |          |   |     |       | 60       | 1        |        |   |   |     |   |         |         |          |
| 13   |       | 11       | 1      | П |        |       |          |            |         |          |   |     |       | 61       |          |        |   |   |     |   |         |         |          |
| 14 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \   |       | 12       | 1      | П |        |       |          | Г          |         |          | Γ |     |       |          |          |        |   |   |     |   |         |         |          |
| 15   V   |       | 13       | 1      |   |        |       |          |            |         | Γ        |   |     |       |          |          |        |   |   |     |   |         |         |          |
| 16   |       |          | 1      |   |        |       |          |            |         |          |   |     |       | 64       |          |        |   |   |     |   |         |         |          |
| 17   |       |          | 1      |   |        |       |          |            |         |          |   |     |       | 65       |          |        |   |   |     |   |         |         |          |
| 18       √       68       69         20       √       70       71         21       √       72       72         23       73       74       74         25       75       75       76         27       77       78       79         30       80       81       82         33       √       88       82         33       √       88       84         37       √       85       86         37       √       88       89         40       √       90       90         41       √       92       92         43       √       94       94         44       √       96       96         47       √       98       99  |       | 16       |        |   |        |       |          |            |         | Π        |   |     |       | 66       |          |        |   |   |     |   |         |         |          |
| 19   |       | 17       |        |   |        |       |          | Г          |         |          |   |     |       |          |          |        |   |   |     |   |         |         |          |
| To   To   To   To   To   To   To   To  |       | 18       | 1      |   |        |       |          | Г          |         | П        |   |     |       | 68       |          | П      |   |   |     |   |         |         |          |
| 21   \( \sqrt{1} \)  |       | 19       | 1      |   |        |       | Г        |            |         |          |   |     |       | 69       |          |        |   |   |     |   |         |         |          |
| 72   |       | 20       | 1      |   |        |       |          |            |         |          |   |     |       |          |          |        |   |   |     |   |         |         |          |
| The state of the   |       | 21       | 1      |   |        |       |          |            |         |          |   |     |       |          |          |        |   |   |     |   |         |         |          |
| 24       74         25       75         26       76         27       76         28       77         29       78         30       80         31       80         32       82         33 √       82         33 √       82         33 √       83         35 √       84         37 √       86         37 √       86         37 √       88         38 √       88         39 √       89         40 √       90         41 √       91         92       93         44 √       94         45 √       96         47 √       97         48 √       96         47 √       97         48 √       99         99       99  |       | 22       | √      |   |        |       |          |            | Г       |          |   | ]   |       | 72       |          |        |   |   |     | Г |         |         |          |
| 25   |       | 23       |        |   |        |       |          |            | Г       |          |   |     |       | 73       |          |        |   |   |     |   |         |         |          |
| 26       76         27       77         28       77         30       80         31       80         32       83         33 √       84         35 √       85         36 √       85         38 √       86         37 √       88         39 √       88         40 √       90         41 √       91         42 √       92         43 √       94         44 √       94         45 √       96         47 √       98         49 √       99  |       | 24       |        |   |        |       |          | Г          |         | Γ        |   |     |       | 74       |          |        |   |   |     |   |         |         |          |
| 26       76         27       77         28       77         30       80         31       80         32       83         33 √       84         35 √       85         36 √       85         38 √       86         37 √       88         39 √       88         40 √       90         41 √       91         42 √       92         43 √       94         44 √       94         45 √       96         47 √       98         49 √       99  |       | 25       |        |   |        |       |          | Г          |         |          |   |     |       | 75       |          |        |   |   |     |   |         |         | $\Box$   |
| 28       78         29       80         31       80         32       83         33 √       84         35 √       85         36 √       85         38 √       86         39 √       88         40 √       90         41 √       91         42 √       92         43 √       94         44 √       94         45 √       96         47 √       98         49 √       99  |       | 26       |        | Г |        |       |          |            |         |          |   |     |       | 76       |          |        |   |   |     |   |         |         | П        |
| 28       78         29       80         31       80         31       82         33 √       83         34 √       83         36 √       85         36 √       86         37 √       88         39 √       88         40 √       90         41 √       91         42 √       92         43 √       94         44 √       94         45 √       96         47 √       98         49 √       99  |       | 27       |        |   |        |       |          |            |         |          |   |     |       | 77       |          |        |   |   |     |   |         |         | П        |
| 30   |       | 28       |        |   |        |       |          |            |         |          | Γ |     |       |          |          |        |   |   |     |   |         |         |          |
| 30   |       | 29       |        |   |        |       |          |            |         |          | П |     |       | 79       |          |        |   |   |     |   |         |         |          |
| 32   |       |          |        |   |        |       |          |            |         | Ī        |   |     |       | 80       |          |        |   |   |     |   |         |         |          |
| 33   \( \)   |       | 31       |        |   |        |       |          |            |         |          |   |     |       | 81       |          |        |   |   |     |   |         |         |          |
| 34 \ \lambda \ \ 35 \ \lambda \ \ 36 \ \lambda \ \ 37 \ \lambda \ \ 38 \ \ 37 \ \lambda \ \ 38 \ \ \ 38 \ \ \ 38 \ \ \ 39 \ \ \ 40 \ \lambda \ \ 41 \ \lambda \ \ 42 \ \ \ 4 \ |       | 32       |        |   |        |       |          |            |         | Г        |   |     |       |          |          |        |   |   |     |   |         |         |          |
| 35   |       |          |        |   |        |       |          |            |         |          |   | 1   |       | 83       |          |        |   |   |     |   |         |         |          |
| 36   |       | 34       | 1      |   |        |       |          |            | Π       |          | Π |     |       |          | Г        |        |   |   |     |   |         |         |          |
| 37  \ \ \ 38  \ \ \ \ 39  \ \ \ \ \ \ \ \ \ \ \ \ \  |       |          | V      |   |        |       |          |            |         |          |   |     |       | 85       |          |        |   |   |     |   |         |         |          |
| 38   |       |          | 1      |   |        |       |          |            |         |          |   |     |       |          |          |        |   |   |     |   |         |         |          |
| 39   \( \)   |       | 37       | ٧      |   |        |       |          |            |         |          | Ī |     |       | 87       |          |        |   |   |     |   |         |         |          |
| 39   \( \)   |       | 38       |        |   |        |       |          |            |         |          |   | ]   |       | 88       | $\Box$   |        |   |   |     |   | $\Box$  |         |          |
| 41   \( \lambda \)   |       | 39       |        |   |        | $L^-$ | $L^-$    |            |         |          |   |     |       |          |          |        | L |   |     |   |         |         |          |
| 42   \( \lambda \)   |       | 40       |        |   |        |       |          |            |         |          |   |     |       |          |          |        |   |   |     |   |         |         |          |
| 42   \lambda   92   93   94   94   95   96   97   97   98   99   99   99   99   99   |       |          |        |   |        |       |          |            |         |          |   | ]   |       |          | $L^-$    |        |   |   |     |   |         |         |          |
| 44   \( \lambda   \)   |       | 42       |        |   |        |       |          |            |         |          |   |     |       |          |          |        |   |   |     |   |         |         |          |
| 44   \( \lambda   \)   |       |          |        |   |        |       |          |            |         |          |   |     |       | 93       |          |        |   |   |     |   |         |         |          |
| 46 \ \land \ \ 47 \ \ \ \ 48 \ \ \ \ 49 \ \ \ \ \ 98 \ \ \ 99 \ \ \ \ 99 \ \ \ \   |       | 44       |        |   | $\Box$ | $L^-$ | $L^-$    |            | $L^{-}$ | $\Box$   |   | 1   |       |          |          |        |   |   |     |   |         | $L^{T}$ |          |
| 47 \ \ \ 48 \ \ \ \ 49 \ \ \ \ \ \ 99 \ \ \ \ 99 \ \ \ \   |       |          |        |   |        | $L^-$ |          |            |         |          |   | ].  |       |          |          |        |   |   |     | L | $\Box$  | L       |          |
| 47 √ 97 98 98 99 99 99   |       |          |        |   |        |       |          | $\Box$     | $\Box$  |          |   |     |       | 96       |          |        |   |   |     |   | $L^{T}$ |         |          |
| 49 🗸   |       |          |        |   |        |       |          |            |         |          |   |     |       |          |          |        |   |   |     |   |         |         |          |
| 49 1   |       |          |        |   |        |       | $\Gamma$ |            |         |          |   |     |       | 98       |          |        |   |   |     |   |         |         |          |
|  |       |          |        | L |        |       |          |            |         |          |   |     |       | 99       |          | 匚      |   | L |     | Ĺ |         | L       |          |
| <del></del>  |       | 50       | 1      |   |        | L     |          |            |         |          |   |     |       | 100      |          | $\Box$ |   | Ĺ |     |   | $\Box$  |         |          |

| Cla          | Date                       |  |              |  |              |          |  |              |          |          |  |
|--------------|----------------------------|--|--------------|--|--------------|----------|--|--------------|----------|----------|--|
|              |                            |  |              |  |              |          |  |              |          |          |  |
| ā            | Original                   | 4/1/06   |              |  |              |          |  |              |          |          |  |
| Finat        | ē                          | 11   |              |  |              |          |  |              | -        |          |  |
| _            | 0                          | ,  |              |  |              |          |  |              |          |          |  |
|              | 51                         | J  |              | $\vdash$   | Н            |          |  | $\vdash$     |          |          |  |
|              | 51<br>52<br>53             | 7  |              |  |              |          | -  | $\vdash$     |          |          |  |
|              | 52                         | 1  |              | -  |              |          |  | $\vdash$     | $\vdash$ |          |  |
|              | 53                         | 1  |              | H  | H            |          |  |              |          |          |  |
|              | 54<br>55                   | \ \ \ \ \  | _            | -  | Н            | _        |  |              |          |          |  |
|              | 55                         | 7777   |              | _  | _            |          | _  | _            | $\dashv$ |          |  |
|              | 56                         |  | _            | L  |              |          |  |              |          |          |  |
|              | 57<br>58                   | 1  | _            | _  | _            |          |  |              |          |          |  |
|              | 58                         |  | _            |  |              |          |  |              |          |          |  |
|              | 59                         | 1  |              |  |              |          |  |              |          |          |  |
|              | 60                         | ٧  |              |  |              |          |  |              |          |          |  |
|              | 61                         |  |              |  |              |          |  |              |          |          |  |
|              | 62                         |  |              |  |              |          |  |              |          |          |  |
|              | 63                         |  |              |  |              |          |  |              |          |          |  |
|              | 64                         | <del>                                     </del> | $\vdash$     |  |              |          |  |              |          |          |  |
|              | 65                         | -  | $\vdash$     |  |              |          |  |              |          |          |  |
|              | 66                         |  | $\vdash$     |  | $\vdash$     |          |  |              |          |          |  |
|              | 67                         | -  |              |  | -            | _        |  | _            | -        | -        |  |
|              | 60                         | ⊢  | ⊢            |  | -            |          |  |              | _        |          |  |
|              | 68<br>69                   | ⊢  | _            |  | <u> </u>     |          |  |              |          |          |  |
|              | 69                         |  | <u> </u>     | <u> </u>   | <u> </u>     |          |  |              |          | _        |  |
|              | 70                         | <u> </u>   | <u> </u>     |  | _            |          | _  | _            |          |          |  |
|              | 71<br>72<br>73<br>74<br>75 | _  |              |  |              |          | _  | $oxed{oxed}$ |          |          |  |
|              | 72                         |  |              |  |              |          |  |              |          |          |  |
|              | 73                         |  |              |  |              |          |  |              |          |          |  |
|              | 74                         |  |              |  |              |          |  |              |          |          |  |
|              | 75                         |  |              |  |              |          |  |              |          |          |  |
|              | 76<br>77                   |  |              |  |              |          |  |              |          |          |  |
|              | 77                         |  |              |  |              |          |  |              |          |          |  |
|              | 78                         |  |              | Г  |              |          |  |              |          |          |  |
|              | 79                         |  |              | _  |              |          |  | _            |          |          |  |
|              | 80                         |  |              | T  |              |          | _  | _            | _        | $\vdash$ |  |
|              | 81                         | <u> </u>   | H            | ┢╌   | <del> </del> | -        |  |              |          | ┢        |  |
| <del> </del> | 82                         | -  | $\vdash$     | $\vdash$   | ┢            | $\vdash$ |  |              |          | ┢        |  |
| ├──          | 82<br>83                   | -  | -            | ┢  | -            | $\vdash$ |  | H            | -        | ┢        |  |
| -            | 0.4                        | ⊢  | -            | ├  | -            | $\vdash$ |  | -            | ⊢        | ┝        |  |
|              | 84<br>85                   | $\vdash$   | $\vdash$     | $\vdash$   |              | -        |  | $\vdash$     | ├        | -        |  |
|              | 85                         | -  | _            | ⊢  |              | H        | _  | _            | ┡        | ├        |  |
| ļ            | 86                         | ļ  | <u> </u>     | ┡  | <u> </u>     | L        |  |              |          | <u> </u> |  |
|              | 87                         | <u> </u>   | _            | <u> </u>   | L_           |          |  |              |          | L        |  |
|              | 88                         | L  | L            | _  | _            |          |  |              |          |          |  |
|              | 89                         |  |              |  |              |          |  |              |          |          |  |
| L            | 90                         |  |              |  |              |          |  |              |          |          |  |
|              | 91                         |  |              |  |              |          |  |              |          |          |  |
|              | 92                         |  |              |  |              |          |  |              |          |          |  |
|              | 93                         | Г  | Ĩ            |  |              | Π        |  |              |          |          |  |
|              | 94                         | Γ  |              | Π  | $\Box$       |          |  |              |          |          |  |
|              | 95                         | _  | $\vdash$     | <del>                                     </del> | $\vdash$     | $\vdash$ | <del>                                     </del> |              | _        | Г        |  |
|              | 96                         | <del>                                     </del> | $\vdash$     | $\vdash$   | †            | $\vdash$ | _  |              | _        | H        |  |
|              | 97                         | $\vdash$   | -            |  | $\vdash$     | $\vdash$ |  |              | $\vdash$ |          |  |
|              | 98                         | -  | <del> </del> | +  | -            | $\vdash$ | $\vdash$   | $\vdash$     | $\vdash$ | $\vdash$ |  |
|              |                            | -  | -            | $\vdash$   | ┼            | $\vdash$ | $\vdash$   | $\vdash$     | $\vdash$ | $\vdash$ |  |
| <u> </u>     | 99<br>100                  | -  | $\vdash$     | ₩  | <del> </del> |          | <del> </del>                                     | <del> </del> |          | $\vdash$ |  |
| ı            | 1100                       | 1  | 1            | 1  | 1            | ı        | ı  | ı            | ı        | ı        |  |

| Cla         | aim   |                             |          |          |                             | Date         | •            |          |  | $\neg$                                       |
|-------------|---|-----------------------------|----------|----------|-----------------------------|--------------|--------------|----------|--|--|
|             |   |                             |          |          |                             |              |              |          |  | $\Box$                                       |
| a           | Original  |                             |          |          |                             |              |              |          |  |  |
| Final       | ΞĒ  |                             |          |          |                             |              |              |          |  |  |
| ш.          | ō   |                             |          |          |                             |              |              |          |  |  |
|             |   |                             |          |          |                             |              |              |          |  |  |
|             | 101<br>102<br>103   |                             |          |          |                             |              |              |          |  |  |
|             | 102   |                             |          |          |                             |              |              |          |  | Ш  |
|             | 103   |                             |          |          |                             |              |              |          |  |  |
|             | 104   |                             |          |          |                             |              |              |          |  |  |
|             | 105<br>106<br>107   |                             |          |          |                             |              |              |          |  | $\neg \neg$                                  |
|             | 106   |                             |          |          |                             |              |              |          |  | П  |
|             | 107   | H                           |          |          |                             | -            |              |          |  | H  |
|             | 108   | -                           |          | _        | -                           |              |              |          |  | Н  |
|             | 100   | -                           |          | _        | _                           | -            |              | _        |  | Н  |
|             | 109   | ├                           |          |          |                             |              |              | _        |  | Н  |
|             | 110   | $\vdash$                    |          |          |                             |              |              |          |  | Ш  |
|             | 111   | <u> </u>                    |          | Ш        | Ш                           | Ш            | Ш            | $\vdash$ |  |  |
|             | 112   | ļ                           |          | Ш        | L                           | Ш            | _            |          | ļ  | $\sqcup$                                     |
|             | 113   |                             |          |          |                             |              |              |          | <u> </u>   | Ш  |
|             | 108<br>109<br>110<br>111<br>112<br>113<br>114<br>115  |                             |          |          |                             |              |              |          | $L^{-}$  |  |
|             | 115   |                             |          |          |                             |              |              |          | [  |  |
|             | 116   |                             |          |          |                             |              |              |          |  |  |
|             | 116<br>117<br>118<br>119<br>120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>132 |                             |          | Г        | Г                           | П            |              |          |  | П  |
|             | 118   |                             |          |          | $\vdash$                    | Н            | $\vdash$     |          | $\vdash$   | H  |
|             | 110   |                             |          |          | H                           | $\vdash$     | ⊢            |          |  | Н  |
|             | 119   |                             |          | _        |                             | $\vdash$     | ┝╌           |          | _  | $\vdash$                                     |
|             | 120   |                             |          | <u> </u> |                             | <u> </u>     | <u> </u>     | _        | <u> </u>   | Ш  |
|             | 121   |                             |          |          |                             | _            | _            | _        | <u> </u>   |  |
|             | 122   |                             |          |          | <u> </u>                    | <u> </u>     | <u> </u>     | L        | L.   |  |
|             | 123   |                             |          | <u> </u> | <u> </u>                    |              | <u> </u>     |          |  |  |
|             | 124   |                             |          | <u> </u> |                             | <u> </u>     |              |          |  |  |
|             | 125   |                             |          |          | · · · ·                     | l            |              |          |  |  |
|             | 126   |                             |          |          |                             |              | Г            |          |  |  |
|             | 127   |                             |          |          |                             |              |              |          |  |  |
|             | 128   |                             | _        |          | _                           |              |              |          |  | П  |
|             | 129   |                             | $\vdash$ | ┢        |                             | $\vdash$     | ┢            |          | _  | H  |
|             | 130   | $\vdash$                    | $\vdash$ | $\vdash$ |                             |              | _            | -        | -  | ┝╾┥  |
|             | 130   | ⊢                           | ┝        | ⊢        |                             | -            | _            | ⊢        | _  | НН   |
|             | 131   |                             | <u> </u> | -        |                             | -            |              | -        | -  | Н  |
|             | 132   | <u> </u>                    |          | <u> </u> |                             | _            | L            | _        | ⊢  | $\sqcup$                                     |
|             | 133   | <u> </u>                    | <u> </u> | <u> </u> | <u> </u>                    | <u> </u>     | <u> </u>     | _        | <u> </u>   | Ш  |
| L           | 134   | L_                          |          | <u> </u> | <u> </u>                    | $oxed{oxed}$ | _            | <u> </u> | <u></u>  |  |
|             | 135<br>136<br>137   |                             |          |          |                             |              | 乚            |          | <u> </u>   | Ш  |
|             | 136   | $L^{\scriptscriptstyle{-}}$ | L        | L        | $L^{\scriptscriptstyle{-}}$ | L            | L            | L        | L  |  |
|             | 137   |                             |          |          |                             |              |              |          |  |  |
|             | 138<br>139<br>140   |                             |          |          | Γ                           | Γ            |              |          |  |  |
| <b>-</b>    | 139   |                             |          |          | Ι                           |              |              |          |  | П  |
| <b></b>     | 140   | T                           |          |          | $\vdash$                    | $\vdash$     | $\vdash$     | $\vdash$ | <del>                                     </del> | Н  |
| <del></del> | 141   | +-                          |          |          | $\vdash$                    | $\vdash$     | $\vdash$     | $\vdash$ | $\vdash$   | H  |
| ├           | 142   |                             |          |          | $\vdash$                    | ╁            |              | -        |  | $\vdash$                                     |
| <u> </u>    |   | $\vdash$                    | $\vdash$ |          | -                           | -            | $\vdash$     | $\vdash$ | $\vdash$   | Н  |
| <u> </u>    | 143   | <u> </u>                    | <u> </u> | <u> </u> | ├                           | ├            | <del> </del> | -        |  | $\vdash$                                     |
| L           | 144   | <u> </u>                    | <u> </u> | <u> </u> | ļ                           | ļ            | L.           | L-       | <b> </b>   | <u>                                     </u> |
|             | 145   | _                           | L        | <u> </u> | <u> </u>                    | _            | _            | 1_       |  | Ш  |
|             | 146   | L                           |          |          |                             | L            |              | <u> </u> |  |  |
| L           | 147   | L                           |          | L        | L                           |              | L            | L        | L  |  |
|             | 148   |                             |          |          | Γ                           | Γ            |              |          |  | П  |
|             | 149   | 1                           | T        | Г        | Π                           |              | l            |          |  | П  |
|             | 150   | t                           | $\vdash$ | <u> </u> | T                           | T            |              | <b>—</b> |  | Н  |
| <u> </u>    | 130   | <u> </u>                    | <u> </u> | L        |                             | Ь            | <u> </u>     | Ц.       | L  |  |